

**WHAT IS CLAIMED IS:**

**1. A sending apparatus comprising:**

**sending means for sequentially sending sending packet generated based on a predetermined communication protocol via a network; and**

**identification information adding means for adding identification information to make only the receiving side identify said packet to each of said sending packet, only during the period requested by the above receiving side being the sending object of said sending packet.**

**2. The sending apparatus according to claim 1, wherein;**

**said identification information generating means adds said identification information to said sending packet in a unencoded state in its forward direction.**

**3. The sending apparatus according to claim 1, wherein;**

**said identification information is composed of a predetermined pseudo-random number and sequence number information peculiar to the above pseudo-random number.**

**4. A sending method comprising:**

**the first step for sequentially sending sending packet generated based on a predetermined communication protocol via a network; and**

the second step for adding identification information to make only the receiving side identify said packet to each of said sending packet, only during the period requested by the receiving side of said sending packet.

5. A receiving apparatus comprising:

receiving means for receiving sending packet based on a predetermined communication protocol sequentially transmitted from the sending side via a network;

detecting means for detecting changed contents packet being said sending packet in that the contents of the above packet are changed, in each of said sending packet received by said receiving means; and

request means for requesting said sending side to add identification information to make only said detecting means identify said packet to said sending packet according to the receiving state of the changed contents packet detected by said detecting means.

6. The receiving apparatus according to claim 6, wherein;

said request means requests only said sending side that sent said sending packet relating to said changed contents packet to add said identification information to sending packet.

7. A receiving method comprising:

the first step for receiving sending packet based on a predetermined communication protocol sequentially transmitted from the sending side via a network;

the second step for detecting changed contents packet being said sending packet in that the contents of the above packet are changed, in each of said sending packet received by said first step; and

the third step for requesting said sending side to add identification information to make only said detecting means identify said packet to said sending packet, according to the receiving state of the changed contents packet detected by said second step.